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<u>L3</u>	L2 with l1	13	<u>L3</u>
<u>L2</u>	primordial with germ	128	<u>L2</u>
<u>L1</u>	Stem cell with growth factor	838	<u>L1</u>

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Terms	Documents
piwi or hiwi	18

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<u>L1</u>	piwi or hiwi	18	<u>L1</u>

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Oct 17, 2002

TITLE: Compositions and methods for the therapy and diagnosis of colon cancer

[2649] SEQ ID NO:2602 is the determined full-length cDNA sequence for clone C638S hiwi

[2650] SEQ ID NO:2603 is the full-length protein sequence for clone C638S hiwi ORF encoded by the cDNA sequence set forth in SEQ ID NO:2602

[2910] One clone, (element R0372 A11, C638S) was further analyzed using real-time PCR as described in Example 5. The real-time analysis showed that this gene is overexpressed in 75% of colon tumors but has low expression in normal colon tissue. Overexpression was also observed in skeletal muscle and adrenal gland (see Table 6). When searched against Genbank, C638S showed similarity to H. sapiens hiwi mRNA. The full-length cDNA and protein sequence for C638S are disclosed in SEQ ID NOs:2602 and 2603, respectively.

TABLE 6 SEQ ID REAL TIME PCR NORMAL NO: GENBANK IDENTITY ELEMENT RATIO NAME CT CN
TISSUE EXPRESSION 2600 Homo sapiens hiwi mRNA R0372 A11 2.13 C638S 75% Low Low levels
in skeletal muscle and adrenal gland 2601 Homo sapiens cDNA: FLJ21212 R0373 A2 2.11
fis, clone COL00502 2596 Homo sapiens ribosomal protein R0366 G6 2.03 S4, X-linked
(RPS4X) mRNA 2595 Human carbohydrate R0364 B8 2.32 sulfotransferase 4 2598 Homo sapiens
H2A histone R0369 H4 2.01 family, member Z (H2AFZ) mRNA 2594 Homo sapiens hypothetical
R0363 E1 2.65 protein (HSPC236), mRNA 2604 Human proteasome (prosomal, R0362 E12 2.03
macropain) subunit, alpha type, 5 2599 Homo sapiens S100 calcium- R0370 B6 2.44 binding
protein A6 (calcyclin) 2597 Serine protease inhibitor, Kunitz R0366 B10 2.44 type, 2